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STRUCTURES AND METHODS TO ENHANCE FIELD EMISSION IN
FIELD EMITTER DEVICES

Abstract of the Disclosure

5 Structures and methods to ease electron emission and limit outgassing so as
to inhibit degradation to the electron beam of a field emitter device are described.
In one method to ease such electron emission, a layer of low relative dielectric
constant material is formed under the surface of the field emitter tip. Another
method is to coat the field emitter tip with a low relative dielectric constant
10 substance or compound to form a layer and then cover that layer with a thin layer
of the material of the field emitter tip.

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